

AMENDMENTS TO THE SPECIFICATION:

Replace paragraph [00049] at pages 9 and 10 with the following amended paragraph:

A) [00049] Fig. 3A shows a reflection detector 300 type of proprioceptive sensor. The reflection detector may operate using electromagnetic signals and reflections thereto. A suitable reflection detector may transmit and receive a sound for range-finding purposes as is known in the art. Alternatively, such a device may be made using a micro-impulse radar (MIR) as is known in the art. A cheap and reasonably accurate reflection detector 300 may be made using a directional transmitter paired with a directional receiver, such as an infrared transmitter 301 and an infrared receiver 303. The directional transmitter may transmit in at least one direction 350. The directional receiver may be sensitive to signals in substantially the same at least one direction 350. Typically such a device combination has an effective sensitivity for only a narrow beam in front of the device, and then, only to a limited distance. Reflection sensitivity will vary with a number of factors. Objects having high reflectivity in the spectrum being detected will produce a positive detection at a greater distance and with a smaller surface presented for reflection than an object that doesn't reflect well. Similarly, an object that is roughly orthogonal to the transmitted signal, e.g. the finger ~~211~~ 311 of Fig. 3A, will provide a better reflection, than a pencil ~~213~~ 313 of Fig. 3B that is obliquely presented to the beam.